relatively large amount of the molecular weight regulator will need to be employed. Generally, greater amounts of the molecular weight regulator are required when the catalyst system being utilized contains hydrogen fluoride or is an aged catalyst which contains boron trifluoride. However, as a general rule, from about 0.25 phm (parts by weight per hundred parts of monomer) to about 1.5 phm of the molecular weight regulator will be employed. The molecular weight regulators that can be used include $\alpha\text{-olefins}$, such as ethylene, propylene, and 1-butene, cis-2-butene, trans-2-butene, isobutene, and para-styrenated diphenylamine.

SUMM

[0055] It is normally preferred to utilize 0.5 phm to 0.75 phm of para-styrenated diphenylamine as the molecular weight ragulator because, at such concentrations, good reductions in molecular weight can be realized and the high cis-1,4-polybutadiene rubber produced is provided with a good level of stabilization. In such cases, the molecular weight of the rubber being synthesized can be controlled by adjusting the ratio of the fluorine containing compound to the organoaluminum compound. In other words, at constant levels of the para-styrenated diphenylamine within the range of 0.25 phm to 1.5 phm, the molecular weight of the polymer being synthesized can be controlled by varying the ratio of the fluorine containing compound to the organoaluminum compound. Maximum reductions in molecular weight and maximum conversions normally occur at molar ratios of the fluorine containing compound to the organoaluminum compound which are within the range of 1.5:1 to 2:1. At molar ratios of less than 1.5:1 and at molar ratios within the range of 2:1 to 2.75:1, lesser reductions in molecular weight occur.

=> FIL STNGUIDE COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 298:11 298.32 SINCE FILE TOTAL DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) ENTRY SESSION -4.68 -4.68 CA SUBSCRIBER PRICE

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139 SEA ABB=ON PLU=ON ((BUTADIEN?(1A)(POLYMER# OR RUBBER# OR ELASTOMER#)) OR POLYBUTADIEN?)(S)(FOURIER(2A)(INFRARED OR INFRA-RED OR IR))

1000 SEA ABB=ON PLU=ON ((BUTADIEN?(1A)(POLYMER# OR RUBBER# OR ELASTOMER#)) OR POLYBUTADIEN?)(10A)((CIS# OR 1,4-CIS?)(4A)(99## OR 100))

=> =>

L1

1.2

L3	753	SEA ABB=ON PLU=ON ((BUTADIEN?(1A)(POLYMER# OR RUBBER# OR ELASTOMER#)) OR POLYBUTADIEN?)(8A)((CIS# OR 1,4-CIS?)(3A)(99### OR 100))
L4	1	SEA ABB=ON PLU=ON L1 AND L3 D L4 1 IBIB ABS
L5	214	SEA ABB=ON PLU=ON ((BUTADIEN?(1A)(POLYMER# OR RUBBER# OR ELASTOMER#)) OR POLYBUTADIEN?)(8W)((CIS# OR 1,4-CIS?)(3A)(99### OR 100))
L6	0	SEA ABB=ON PLU=ON L5 AND L1
L7	31787	SEA ABB=ON PLU=ON L5 AND FOURIER TRANSFORM OR FT-IR
L8	156	SEA ABB=ON PLU=ON (POLYBUTADIENE OR POLY(1W) BUTADIENE)(S)(FO
		URIER TRANSFORM OR FT-IR)
L9	0	SEA ABB=ON PLU=ON L5 AND L8
L10	3219	SEA ABB=ON PLU=ON (POLYBUTADIENE OR POLY(1W) BUTADIENE)(S)(HI
		GH(2W)(CIS? OR 1,4-CIS?))
L11	_ 9	SEA ABB=ON PLU=ON L8 AND L10
		D L11 1-9 IBIB ABS
		D L11 6 IBIB HIT
		D L11 4 IBIB HIT
		D L11 3 IBIB HIT
L12	29	SEA ABB=ON PLU=ON (POLYBUTADIENE OR POLY(1W) BUTADIENE) (S) (GA
		DOLINIUM? OR GADOLOCENE?)
L13	14	SEA ABB=ON PLU=ON L10 AND L12
		D L13 1-14 IBIB ABS
		D L13 11 IBIB HIT
		D L13 10 IBIB HIT
		D L13 7 IBIB HIT

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FILE HOME

FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 18 Dec 2007 (20071218/PD)

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	L11	(152/450)![CCLS]	437
	L10	(152/525)![CCLS]	384
	L9	(152/209.1)![CCLS]	471
	L8	(526/164)![CCLS]	248
	L7	L6 and @pd > 20071218	0
	L6	(526/340.2)![CCLS]	395
	L5	(525/340.2)![CCLS]	. 0
	L4	(525/340.2)![CCLS]	0
	L3	L2 and @pd > 20071217	0
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	L1	(526/340.4)![CCLS]	316

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